IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in re /	Application of:)
Mireili	le MAUBRU et al.) Group Art Unit: 1619
Application No.: 10/796,082) Examiner: Jyothsna A. VENKAT
Filed:	March 10, 2004	
For:	COSMETIC COMPOSITIONS COMPRISING AT LEAST ONE CROSSLINKED COPOLYMER, AT LEAST ONE INSOLUBLE MINERAL PARTICLE AND AT LEAST ONE POLYMER, AND USES THEREOF	Confirmation No.: 2687))))))
P.O. 6	nissioner for Patents Box 1450 ndria, VA 22313-1450	
Sir:		

DECLARATION UNDER 37 C.F.R. § 1.132

- I, Samira Khenniche, do hereby make the following declaration:
 - I am a French CITIZENSHIP, residing at 40 rue Chance Milly at Clichy
 (92110) Paris
- 2. I have been awarded a degree in **chemistry** from **Lyon university**, and am a Doctor in **chemistry**.
- 3. I have been employed by L'ORÉAL since **September 2006** and I am presently a research engineer of the **Applied Research** at L'ORÉAL.

4. Given my education and experience, particularly in the area of hair care, I consider myself able to provide the following testimony based on experiments conducted by me or under my direct supervision.

I. TESTING

- 5. Comparative testing was performed between comparative Composition A and inventive Compositions B and C in order to demonstrate the resulting differences in softness, smoothness, suppleness in both wet and dry hair as well as texture in dry hair between the compositions.
- 6. Composition A (comparative) and Compositions B and C (inventive) were prepared according to Table 1 below. The compositions were identical expect that Composition A (comparative) contains mica-TiO₂ as a water-insoluble solid mineral particle while Composition B (inventive) contains calcium carbonate and Composition C (inventive) contains clay.

TABLE 1

	Ingredient	COMPARATIVE Composition A	INVENTIVE Composition B	INVENTIVE Composition C
	Deionized water	14.45	14.45	14.45
	Acrylates Crosspolymer (30%) AQUA SF1 from NOVEON	5	5	5
Part A	Cocoyl Isethionate (and) Sodium Lauroamphoacetate (and) Sodium Methyl Cocoyl taurate (and) Sodium Xylene Sulfonate (38%)	45	45	45
	Sodium Laureth Sulfate (2 mole, 27%)	15	15	15
Part	Deionized water	5	5	5

В	Sodium Hydroxyde (18%)	0.05	0.05	0.05
	Guar Hydroxypropyl Trimonium Chloride	Q.15	0.15	0.15
	Citric acid (50%)	0.05	0.05	0.05
	Sodium Cocoamphoacetate (37%)	5	. 5	5
Part C	Polyquaternium-7	2	2	2
	Dimethiconol (and) TEA- Dodecylbenzenesulfonate	4	4	4
	Deionized water	2.5	2.5	2.5
Part	mica-TiO2	0.2		在主要批准
D	CaCO3		0.2	美国教徒数11。
	Clay			0.2
	Fragance	0.5	0.5	0.5
Part E	Phenoxyethanol (and) Methylparaben (and) Butylparaben (and) Ethylparaben (and) Propylparaben	0.5	0.5	0.5
	Citric acid (50%)	0.6	0.6	0.6

7. At the time of use, Compositions A-C were each mixed in separate bowls. Then, one gram of each Composition was applied to its own 2.7 gram, wet, sensitized hair lock. The locks were rolled and kneaded by hand and then rinsed with water. After evaluation of the wet hair, the locks were dried and evaluated again.

II. SENSORY EVALUATION

8. Seven experts evaluated the cosmetic properties of the hair of the locks. The wet hair was evaluated for softness, smoothness, and suppleness. After the locks were dried, the hair was evaluated for softness, smoothness, suppleness, and texture. The results were ranked from 0-5 with zero representing "not good" and five

representing "excellent." Tables 2 and 3 show the results of the evaluations. The statistical significance was analyzed using a Dunnett test.

TABLE 2

·	COMPARATIVE Composition A	INVENTIVE Composition B	p-value
	[2000] 2000 Television (2000) [Control of the Control of the Contr	Wet Hair	
Softness	2.14	3.35	0.025 (difference significant to threshold < 10%)
Smoothness (feel)	2.21	3.28	0.087 (difference significant to threshold < 10%)
Suppleness	2.78	2.42	> 0.1
		Dried Hair	
Softness	2.57	3.5	0.034 (difference significant to threshold < 10%)
Smoothness (touch)	2.5	. 3.42	0.073 (difference significant to threshold < 10%)
Suppleness	2.35	2.92	0.243 (difference
Texture	2.07	2.78	0.059 (difference significant to threshold < 10%)

TABLE 3

	COMPARATIVE Composition A	INVENTIVE >> Composition © >>	p-value
		Wet Hair	
Softness	2.14	2.57	0.53
Smoothness (feel)	2.21	2.85	0.36
Suppleness	2.78	2.28	>0.1
		Dried Hair	

Softness	2.57	3.35	0.075 (difference significant to threshold < 10%)
Smoothness (touch)	2.5	3.28	0.137
Suppleness	2.35	2.92	0.243
Texture	2.07	2.85	0.037 (difference significant to threshold < 10%)

III. CONCLUSION

- 9. From the above results, it is clear that there is a marked improvement of the cosmetic properties in the hair treated with inventive Composition B and inventive Composition C.
- 10. Based on my education and experience, one of ordinary skill in the art would not have expected that a composition containing calcium carbonate or clay, according to the present claims, would result in the marked improvement of the cosmetic properties.
- 11. I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: March 16th 2009

By: Khenniche Samira

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